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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO		
10/566,211	03/08/2006	Makoto Asai	F05415US	1010		
21284 7590 044072008 MCGINN INTELLECTUAL PROPERTY LAW GROUP, PLLC 8321 OLD COURTHOUSE ROAD SUITI: 200 VIENNA. VA 22182-3817			EXAM	EXAMINER		
			FORD, KENISHA V			
			ART UNIT	PAPER NUMBER		
,			2812			
			MAIL DATE	DELIVERY MODE		
			04/07/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/566,211	ASAI ET AL.		
Examiner	Art Unit		
KENISHA V. FORD	2812		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

C4-4			

· cited to tropiy					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET! WHICHEVER IS LONGER, FROM THE MAILING DATE OF T Extensions of time may be available under the provisions of 37 CPR 1.136(a). In no e 18 NO period for reply is specified above, the maximum statutory period with apply and 18 NO period for reply is specified above, the maximum statutory period with apply and 19 Failure to reply within the set or contended period for reply will by statute, cause the ap Any reply received by the Office later than three months after the maising date of this ceamed patter therm adjustment. See 37 CPR 1.70(b)	HIS COMMUNICATION. vent, however, may a reply be timely filed will expire SIX (6) MONTHS from the mailing date of this communication. plication to become ABANDONED (35 U.S.C. § 133).				
Status					
1) Responsive to communication(s) filed on 30 November 2	<u>2007</u> .				
2a) This action is FINAL . 2b) This action is	non-final.				
3) Since this application is in condition for allowance excep	t for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Q	uayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) 1-20 is/are pending in the application.					
4a) Of the above claim(s) 1-5 and 14-19 is/are withdrawr	from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>6.7 and 9-12</u> is/are rejected.					
7)⊠ Claim(s) <u>13</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election	requirement.				
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.				
Applicant may not request that any objection to the drawing(s)					
Replacement drawing sheet(s) including the correction is requi					
11) The oath or declaration is objected to by the Examiner. N					
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) or (f)				
a) ☐ All b) ☑ Some * c) ☐ None of:	(-/ (//				
1. Certified copies of the priority documents have be	en received.				
2. Certified copies of the priority documents have be					
3.⊠ Copies of the certified copies of the priority docum					
application from the International Bureau (PCT Ru					
* See the attached detailed Office action for a list of the cer	tified copies not received.				
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)				

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO/S5/08)

Paper No(s)/Mail Date See Continuation Sheet.

Paper No(s)/Mail Date.

5) Notice of Informal Patent Application 6) Other: __

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :1/27/06, 8/2/06, 12/19/06, 11/20/07.

DETAILED ACTION

This Office Action is regarding the Response filed on 30 November 2007. Currently, claims 6-13 and 20 are pending. Claims 1-5 and 14-19 have been withdrawn from consideration.

Election/Restrictions

- Applicant's election without traverse of Group II, claims 6-13 and 20 in the reply filed on 11/30/07 is acknowledged.
- 2. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Priority

 Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Japan on 4/7/04 & 7/28/04. It is noted, however, that applicant has not filed a certified copy of the applications as required by 35 U.S.C. 119(b).

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 1/27/06, 8/2/06, 12/19/06 & 11/20/07 are being considered by the examiner.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treats in the English language.
- Claims 6, 7 and 9-12 are rejected under 35 U.S.C. 102(e) as being anticipated by Suchiro et al. (US 2003/0122478 A1).
- 7. Regarding claim 6, Suchiro et al. discloses a light-emitting diode of a surface emitting type in which a semiconductor layer is deposited on a crystal growth plane of a crystal growth substrate, wherein said crystal growth substrate comprises at least one of an output plane and a reflection plane which contributes to luminous output of the device through a physical shaping process such as polishing treatment, dicing treatment and blasting treatment, and a physically damaged layer which is formed on the surface of at least one of said output plane and said reflection plane and remains owing to friction and shock generated in said shaping process is removed (p. 9, para. 131-132, line 10).

Regarding claim 7, Suehiro et al. discloses a light-emitting diode wherein a metal layer which has light-transparency to transmit light to the luminous extracting side of said device is formed on said output plane (p. 9, para. 132, lines 10-16).

Regarding claims 8 and 20, Suchiro et al. discloses a light-emitting diode, wherein a metal layer which reflects light to the luminous extracting side of said device is formed on said reflection plane (p. 9, para. 132, lines 16-21).

Regarding claim 9, Suchiro et al. discloses a light-emitting diode wherein said crystal growth substrate is formed by using Al_iGa_{1-N} ($0 \le x \le 1$) or silicon carbide (SiC) (p. 9, para. 142, lines 1-4).

Regarding claim 10, Suchiro et al. discloses a light-emitting diode wherein a taper plane which inclines to said crystal growth plane of said crystal growth substrate is formed at least as a portion of at least one of output plane or at least as a portion of said reflection plane (p. 9, para. 131, lines 11-14).

Regarding claim 11, Suchiro et al. discloses a light-emitting diode in which a semiconductor layer is deposited on a crystal growth plane of a crystal growth substrate, comprising: a taper plane which inclines to said crystal growth plane of said crystal growth substrate which is formed at least at a portion of the sidewall of said light-emitting diode, wherein said taper plane is exposed to the surface side of said light-emitting diode at which a semiconductor crystal layer and a positive electrode are formed, and a physically damaged layer which is formed on the surface of said taper plane and remains owing to friction and shock generated in said taper part is removed (p. 9, para. 131-132, line 10).

Regarding claim 12, Suehiro et al. discloses a light-emitting diode which is fabricated by dividing a semiconductor wafer comprising plural light-emitting diodes into each of said light-emitting diode, comprising: a taper plane at least at a portion of the sidewall of said light-emitting diode, wherein said taper plane is a portion of the plane of an approximately V-shaped dividing groove which divides the semiconductor wafer into each of said light-emitting diode (p. 11, para. 158. lines 1-14).

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Allowable Subject Matter

8. Claim 13 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. The prior art of reference does not teach that the peak luminous wavelength of the light-emitting diode is less than 470 nm.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KENISHA V. FORD whose telephone number is (571)270-3328. The examiner can normally be reached on Monday-Thursday 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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KVF

/Michael S. Lebentritt/ Supervisory Patent Examiner, Art Unit 2812